MULTI-CD CONTROL
FM/AM TUNER DECK

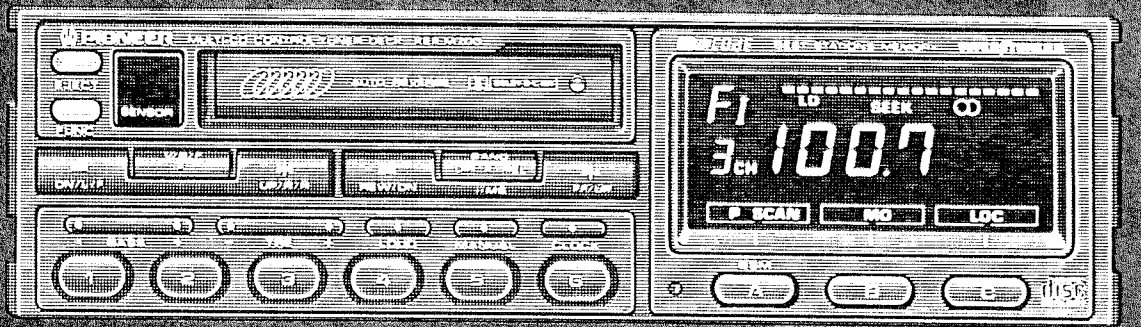
PLATINE DE SYNTONISATION FM/AM
DE COMMAND MULTI-CD

SUPER TUNER III

OWNER'S MANUAL
MODE D'EMPLOI

Thank you for purchasing this PIONEER product.
Before operating it, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prenez soin de lire cette notice.



PIONEER®

KEX-M7700

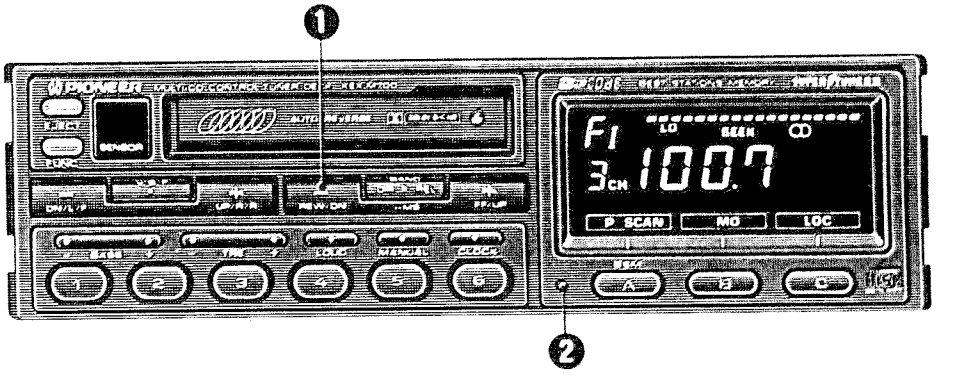
Features

- Multi CD Control function for full control over optional magazine type multi-play CD player.
- Wireless remote controller included as an accessory to keep often used controls at your fingertips.
- Auto Reverse function plays both sides of cassette tapes. Tape deck includes motor driven power loading and soft eject.
- Music Search function helps locate the beginning of favorite selections. Music Repeat function repeats selected tunes. Blank Skip function passes over long unrecorded sections of the tape.
- Built-in Dolby NR for reduced tape hiss.
- Built-in highly sensitive "Super Tuner III" for automatic control of stereo separation, muting, and frequency characteristics to match the strength of the FM signal.
- BSM (Best Stations Memory) function automatically locates strong broadcasts and assigns them to tuning buttons.
- Versatile tuning system (preset, preset scan, seek, manual).
- For either AM or FM reception, a tuning step is switchable to the other according to the zonal frequency range.
- Fader Control function for 2-amp 4-speaker systems.
- Anti-theft Mechanism (Secret Code).

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

Important
The serial number of this device is located on the bottom of the unit. For your own security and convenience, be sure to record this number on the enclosed warranty card.

Changing the Tuning Steps



Changing the Tuning Steps

The unit is shipped from the factory preset for 10 kHz steps in AM and 0.2 MHz steps in FM. The following procedure should be used for applications outside of North America, Central America and South America to change the tuning steps and frequency ranges.

1. Turn the ignition switch off.
2. While pressing both the right and the left sides of the tuning (fast forward rewind) button ❶, turn the igniton switch on. It should be noted that changing the tuning steps also deletes frequencies stored in the tuning memories.

- Pressing the clear button ❷ and changing the vehicle's battery set the tuning steps and frequency range settings to their initial setting.

Specification		Initial setting	New Setting
AM	Tuning steps	10 kHz steps	9 kHz steps
	Frequency range	530—1,620 kHz	531—1,602 kHz
FM	Tuning steps	0.2 MHz steps	50 kHz steps
	Frequency range	87.9—107.9 MHz	87.5—108 MHz

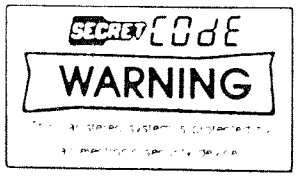
Secret Code

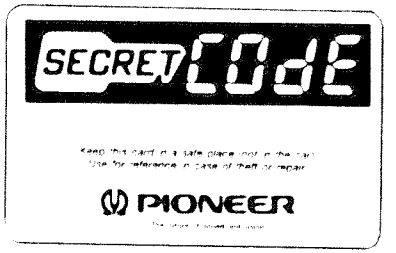
This unit is equipped with a secret code function. The secret code (4-digit) electronically locks the unit to reduce the danger of theft.
The code is preset to 0000 at the time of purchase, and the unit can be used normally without altering the code as preset. It is recommended, however, that the user change the code to another value to take full advantage of the anti-theft properties of this system.
Once a code is set, the unit will operate normally without input of the secret code, even if the ignition of the vehicle is switched OFF and then ON again. Should power to the unit be interrupted due to a battery change, repairs, however, the unit will fail to operate when power is restored unless the preset secret code is first entered. Three consecutive wrong inputs of the code will cause the unit to lock electronically to accept no input of code for three hours. Once operation is restored, three more wrong code inputs result in another three hours of electronic lock up. This feature helps to prevent breaking of the secret code through sequential or random input.
These features mean that once the power supplied to the unit is completely cut, further operation is impossible except for those who know the secret code. This makes the unit unuseable if stolen, thus reducing the danger of theft.

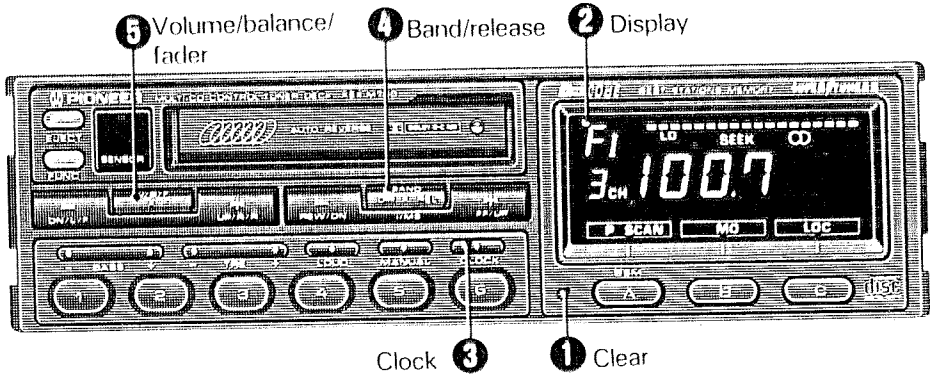
- When taking the unit to a service station for repair, be sure to either tell the service personnel the registered code or return the value to 0000.
- Should you forget your registered secret number, consult your local service station taking along a such proof of purchase and ownership as the original receipt, etc.

Accessory Sticker and Card

- Affix the sticker on a window of the vehicle in which the unit is installed to inform potential thieves of the anti-theft function of the unit.
- Write the secret code, unit model number, and unit serial number on the card and store it in a safe place outside of the vehicle itself. The serial number of this device is located on the bottom of the unit. This information can then be made available to the police and your PIONEER service station should your unit be stolen.



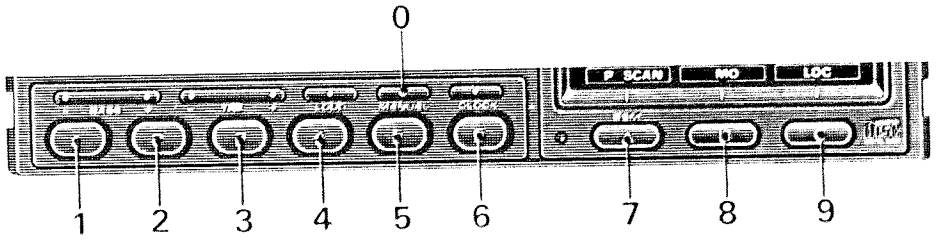




Registering the Secret Code

The secret code should be registered after all connection and installation procedures are complete.

1. Switch the ignition key of the vehicle to ON or ACC. Press the clear button ❶ with a thin pointed object. Doing so causes PASS to appear on the display ❷ for 1 minute.
2. Press the volume/balance/fader button ❺ while PASS is shown on the display ❷.
3. The message CODE will flash on the display ❷ to indicate that secret code registration is now possible. During this period, the buttons illustrated below become numeric input buttons (0—9) for the purpose of secret code registration.



4. Use the numeric input buttons to register the 4-digit secret number of your choice.
- If an input error is made, simply reinput the correct secret code from the beginning. The last four values input are registered as the secret code.
5. The entered value is registered as the secret code by pressing the band/release button ❹ after input is complete. The display ❷ will be cleared once this is done and normal operation of the unit will be possible.

Interruption of the Power Supply

Interruption of the power supplied to the unit caused by battery replacement, repairs of the unit causes the message CODE to flash on the display ❷ once power supply is resumed and the ignition key of the vehicle is switched to ON or ACC. At this time the previously registered secret code should be entered using the following procedures:

1. Use the numeric input buttons (see "Registering the secret code") to enter the previously registered 4-digit secret code.

2. Press the band/release button ❹. The message PASS will appear on the display ❷ for 1 minute, and normal operation will resume if the number entered matches the secret code registered before the power to the unit was interrupted. If the two numbers do not match, CODE will flash on the display ❷ again and the unit will await input of the correct value.

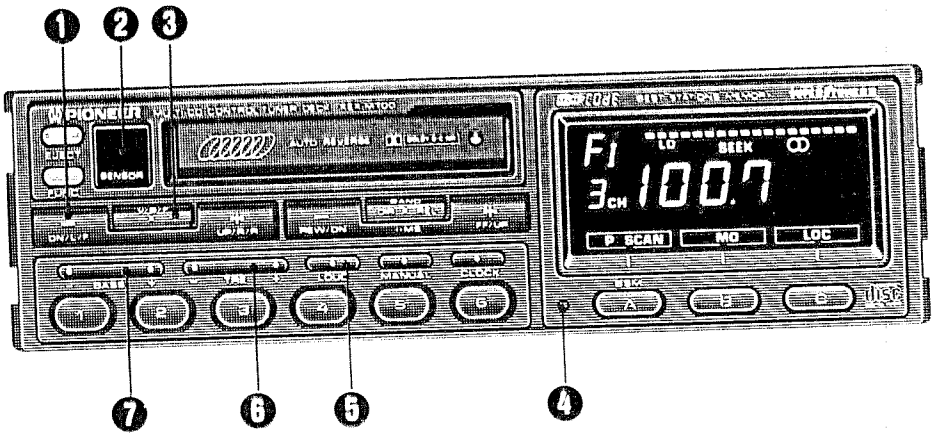
Anti-theft Function

Three consecutive inputs of values which do not match the previously registered secret code activates an error timer causing the message Err to appear on the display ❷. At this time, all operations, including further code input, become impossible for 3 hours (uninterrupted power supply). At the end of the 3-hour period, the message CODE appears on the display ❷. The anti-theft function will operate for all subsequent input until the correct value is entered.

Changing the Secret Code

1. While pressing the clock button ❸, turn the ignition key to ON or ACC.
2. The message CODE will flash on the display ❷, indicating that the unit is waiting for input of a secret code.
3. Use the numeric input buttons (see "Registering the secret code") to enter the previously registered 4-digit secret code.
4. Press the band/release button ❹. The message PASS will appear on the display ❷ for 1 minute, and normal operation will resume if the number entered matches the secret code registered before the power to the unit was interrupted. If the two numbers do not match, CODE will flash on the display ❷ again and the unit will await input of the correct value.
5. Press the volume/balance/fader button ❺ while PASS is shown on the display ❷.
6. The message CODE will flash on the display ❷ to indicate that it is now possible to change the registered secret code.
7. Use the numeric input buttons to register the 4-digit secret number of vour choice.
8. The entered value is registered as the new secret code by pressing the band/release button ❹ after input is complete. The display ❷ will be cleared once this is done.

General Guide (Audio Control)



❶ Volume/Balance/Fader Control Button

Volume Control

Press the (+) side to increase volume and the (−) side to decrease volume.

Balance Control

Press the volume/balance/fader button ❸ and the balance adjustment display will appear for about five seconds. During this period, press the (+) side to shift the balance to the right speaker, or the (−) side to shift the balance to the left speaker. The volume level display will return after about five seconds.

Fader Control

This control is only used in 2-amp 4-speaker systems to adjust the balance between the front and rear speakers. Press the volume/balance/fader button ❸ and the fader adjustment display will appear for about five seconds. During this period, press the (+) side to shift the balance to the rear speakers, or the (−) side to shift the balance to the front speakers. The volume level display returns after about five seconds.

❷ Remote Controller Sensor

❸ Volume/Balance/Fader Button (V/B/F)

Press to switch the display in the following sequence:
Volume → Balance (BAL) → Fader (FAd)
The balance and fader displays are shown for about five seconds, and you can use the volume/balance/fader control button during this time to adjust the balance between the speakers. The volume level display returns after about five seconds.

❹ Clear Button

Though not a normal occurrence, the microprocessor which controls the operation of this unit can be bothered by electrostatic noise. This generally is indicated by such symptoms as no power being supplied when you switch the unit on, failure of the buttons and controls, or an abnormal display. Should this happen, press the clear button with a thin, pointed object to reset the microprocessor. Note that doing so also resets all audio controls, so you will have to make any desired settings again. Pressing this button causes the message CODE to appear on the display. Input the previously registered secret code at this time. This operation deletes all the previous memories like the frequencies stored in preset.

❺ Loudness Button

Press to strengthen both high and low notes when listening at a low volume setting.

❻ Treble Control Button

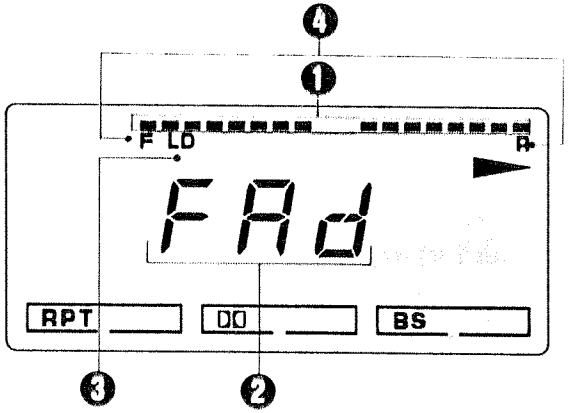
Press the (+) side to increase the treble effect and emphasize high notes, and the (−) side to decrease the treble effect. The treble display TRE appears whenever you adjust the treble. The volume level display returns after about five seconds.

❼ Bass Control Button

Press the (+) side to increase the bass effect and emphasize low notes, and the (−) side to decrease the bass effect. The bass display BASS appears whenever you adjust the base. The volume level display returns after about five seconds.

- When adjusting balance, fader, treble, or bass, the unit stops automatically when the setting (Level indicator) passes the center position.

Reading the Display (Audio Control)



❶ Volume/Balance/Fader/Bass/Treble Displays

Volume

The unit automatically returns to the volume display after another display is selected and shown for about five seconds. The current volume level is indicated by blocks, with the number of blocks increasing as the volume level is raised. If you press the attenuator button on the remote controller, the volume is cut to 1/10 of its current setting, and this condition is indicated by the display flashing.

Balance

While the volume display is being shown, press the volume/balance/fader button once to show the balance between the left and right speakers. This display is indicated by the letters BAL, and remains shown for about five seconds before returning to the volume display.

Fader (4-speaker system)

While the volume display is being shown, press the volume/balance/fader button twice to show the balance between the front and rear speakers. This display is indicated by the letters FAd, and the blocks above the F indicate the setting of the front speakers, while those above the R show the setting of the rear speakers. The fader display remains shown for about five seconds before returning to the volume display.

Bass

Press the (+) or (−) side of the bass control button to show the current bass level setting. This display is indicated by the letters BASS, and remains shown for about five seconds before returning to the volume display.

Treble

Press the (+) or (−) side of the treble control button to show the current treble level setting. This display is indicated by the letters TRE, and remains shown for about five seconds before returning to the volume display.

❷ Balance/Fader/Bass/Treble Displays

The letters that appear here indicate the current status of the display.

❸ Loudness Indicator

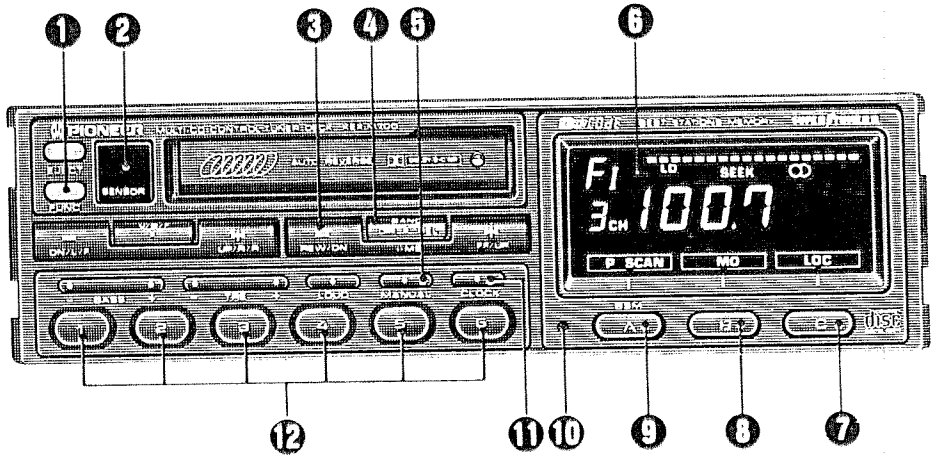
Press the loudness button and the "LD" indicator appears on the display.

❹ Front (F)/Rear (R) Indicators

These indicators appear when the fader display is selected.

ENGLISH

General Guide (Tuner)



❶ Mode Button (FUNC)

Press to switch the function of the unit as follows:
Cassette deck → Tuner → Power off

- When your system includes a separately available multi-play CD player (such as CDX-M100), pressing this button switches the functions in the following sequence:
  Multi-play CD player → Cassette deck → Tuner → Power off

❷ Remote Controller Sensor

❸ Tuning/Time Adjustment/Local Seek Sensitivity Button

Tuning

When the seek/manual button ❺ is off, press the (+) side to tune to a higher frequency and the (−) side to tune to a lower frequency. FM frequencies change in 0.2MHz steps, while AM frequencies change in 10kHz steps. The frequency changes at high speed when you hold either side of this button down.

- FM frequencies are tuned in 50 kHz steps and AM frequencies in 9 kHz steps after the tuning steps are changed.

Time Adjustment

Press the (−) side while holding down the clock button ⓫ to set the hour portion of the time display, and the (+) side to change the minute portion. The time setting changes at high speed when you hold either side of this button down.

Local Seek Sensitivity

Press the (+) side or (−) side after holding down the local seek button ❼ for about two seconds to change the local seek sensitivity level. You can set the sensitivity to one of four levels for the FM band, and two levels for the AM band.

❹ Band/Release Button

Press to change the frequency band in the following sequence:
FI (FM1) → FII (FM2) → FIII (FM3) → A (AM)
This button is also used to cancel the Best Stations Memory (BSM) operation.

❺ Seek/Manual Button

Press during seek tuning (indicated by "SEEK" on the display) to switch to manual tuning using the tuning buttons. Pressing again switches back to seek tuning position.

❻ Display

❼ Local Seek Button (C)

Press to switch the local seek function on (indicated by a bar above "LOC" on the display) and raise the threshold level for the tuning of broadcasts. For details concerning this function, see "Using Local Seek Tuning".

❽ FM Stereo/Monaural Button (B)

Press to switch between FM stereo and monaural (indicated by a bar above "MO" on the display). Generally, the monaural setting is only used when there is a large amount of static present during stereo reception.

⑨ Best Stations Memory (BSM)/Preset Scan Button (A)

Best Stations Memory

Hold down for about two seconds to perform the Best Stations Memory function (BSM appears on the display).

Preset Scan

Press to sequentially tune in the frequencies preset to the preset button memory for eight seconds each (operation indicated by a bar above "P SCAN" on the display). Press again to cancel the scan operation and stay at the frequency currently tuned in.

⑩ Clear Button

⑪ Clock Button

Press to display the current time.

⑫ Preset Tuning/Memory Buttons (1—6)

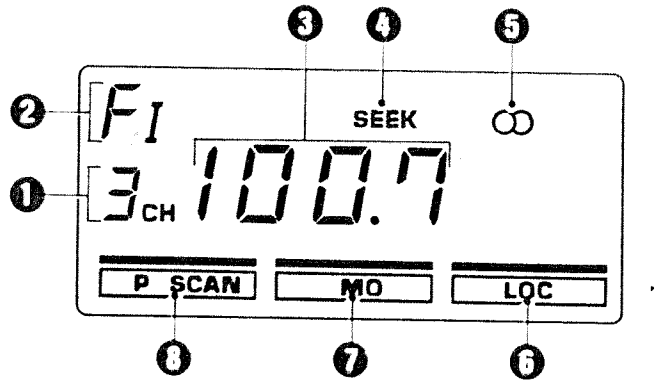
Preset tuning

Once frequencies are assigned these buttons are used for tuning of their preset frequencies.

Memory

You can assign up to 18 FM frequencies (6 for FM1, 6 for FM2, 6 for FM3) and 6 AM frequencies to memory buttons for one-touch tuning.

Reading the Display (Tuner)



❶ Preset Number Display

Press a preset button and the number of the button pressed is displayed.

❷ Band Indicator

Each press of the band/release button switches the band and changes this indicator in the following sequence:
FI → FII → FIII → A
FI, FII or FIII should be displayed if you wish to listen to FM, while A should be displayed for AM radio.

❸ Frequency/Local Seek Sensitivity/Time Displays

When you switch the power of the tuner on, the currently tuned frequency appears on the display. If you hold down the local seek button for about two seconds, the current local seek sensitivity setting appears until you release the button. When you press the clock button, the current time is displayed.

❹ Seek Indicator

The "SEEK" indicator appears on the display when you press the seek/manual button to put it in the seek tuning position.

❺ FM Stereo Indicator

This indicator appears when an FM stereo broadcast is received under normal reception conditions.

❻ Local Seek Indicator

The bar above the "LOC" indicator appears on the display when you press the local seek button.

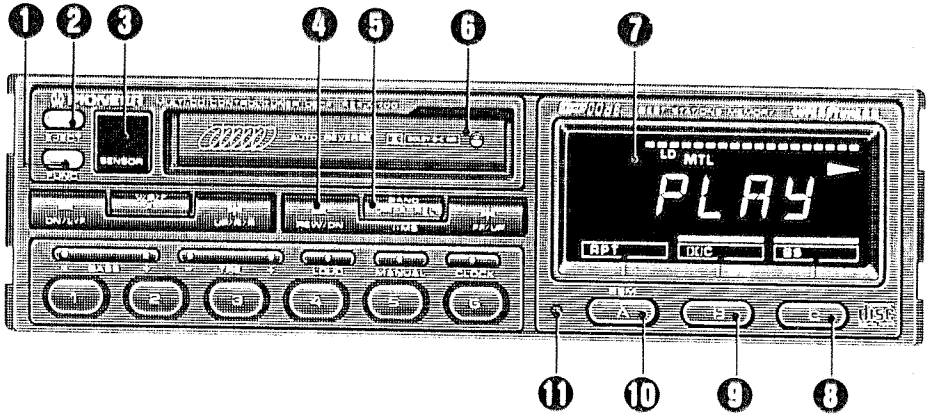
❼ FM Monaural Indicator

The bar above the "MO" indicator appears on the display when you press the FM stereo/monaural button to switch to monaural reception during an FM broadcast.

❽ Preset Scan Indicator

The bar above the "P SCAN" indicator appears on the display when you press the best stations memory/preset scan button.

General Guide (Cassette Deck)



❶ Mode Button (FUNC)

Press to change the function of the unit in the following sequence: Cassette deck → Tuner → Power off

❷ Eject Button

Press to eject the cassette tape currently loaded in the cassette player.

❸ Remote Controller Sensor

❹ Fast Forward (+)/Rewind (−) Button

Press the (+) side for fast forward and the (−) to rewind the tape. Press this button twice to perform the music search operation, and a third time to cancel the music search operation.

❺ Program (DIR)/ Release (REL) Button

Press to switch from Side A to Side B of a tape or from Side B to Side A. This button also cancels the music search, music repeat, fast forward, and rewind operations.

❻ Tape Slot

❼ Display

❽ Blank Skip Button (C)

Press to automatically skip over any unrecorded portion of a tape that is longer than about 10 seconds (indicated by a bar above "BS" on the display). Normal play resumes automatically when the beginning of the next selection is reached.

❾ Dolby NR Button (B)

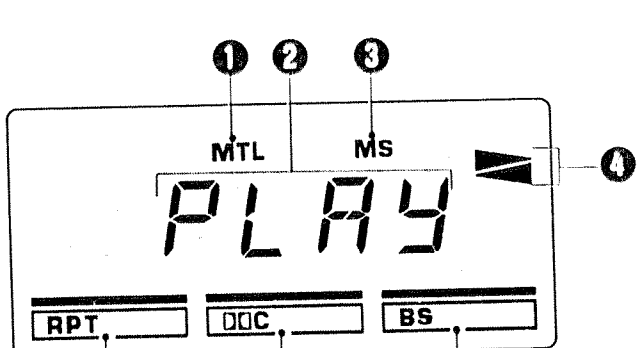
Press when playing back a tape recorded using the Dolby NR system. Each press of switches this function in the following sequence: Dolby B-type NR (indicated by a bar above DD on the display) → Dolby C-type NR (indicated by a bar above DD C on the display) → Dolby NR off

❿ Music Repeat Button (A)

Press for repeat play of the selection currently being played (operation indicated by "RPT" on the display). You can cancel the music repeat function by pressing the release button or by pressing the music repeat button once again.

⓫ Clear Button

Reading the Display (Cassette Deck)



❶ Metal Tape Indicator

An Auto Tape Selector Mechanism automatically switches the equalizer (70μs/120μs) to the correct setting for the cassette tape loaded into the deck. The "**MTL**" indicator appears when a metal tape or chrome tape is loaded. Nothing is shown when a normal tape is loaded.

❷ Tape Play/Fast Forward/Rewind Indicators

The PLAY indicator appears during tape play. Press the (+) side of the fast forward (+)/rewind (−) button and the F.F indicator flashes to indicate fast forward. Press the (−) side and the REW indicator flashes for rewind.

❸ Music Search Indicator

This indicator flashes on the display while either the fast forward F.F or rewind REW indicator is shown to indicate the music search function.

❹ Tape Side Indicator

You can load cassette tapes into the deck with either Side A or Side B facing upwards. The ► indicator appears on the display while the upper side of the tape is playing, while ◄ indicates that the lower side is playing.

❺ Blank Skip Indicator

The bar above the "**BS**" indicator appears on the display when you press the Blank Skip button. The PLAY indicator on the display changes to flashing F.F during the operation of the Blank Skip function.

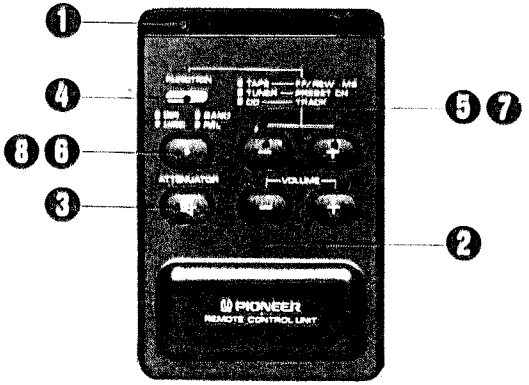
❻ Dolby NR Display

Press the Dolby NR button to change this indicator in the following sequence:
Bar over DD (Dolby B-type NR) → Bar over **DDC** (Dolby C-type NR) → DD only (Dolby NR off)

❼ Music Repeat Indicator

The bar above the "**RPT**" indicator appears on the display when you press the music repeat button. The PLAY indicator on the display changes to REW during the operation of the Music Repeat function.

General Guide (Remote Controller Unit)



❶ Transmitter

Sends signals from the remote controller unit to the sensor on the stereo.

❷ Volume Up (+)/Down (−) Button

Press the (+) side to increase volume and the (−) side to decrease volume.

❸ Attenuator Button

Press to reduce the volume to 1/10 of its current setting (operation indicated when the volume level indicator is flashing).
Pressing again returns the volume to its original level.

- This function is available using the remote controller unit only.

❹ Mode Button

Press to switch the function of the unit as follows:
Cassette deck → Tuner → Power off

- When your system includes a separately available multi-play CD player (such as CDX-M100), pressing this button switches the functions in the following sequence:
  Multi-play CD player → Cassette deck → Tuner → Power off

❺ Preset Channel Up (+)/Down (−) Button

Press to tune the frequencies assigned to the preset button memory. Pressing the (+) side tunes in the next high preset button number, while (−) tunes in the next lower preset button number. The frequency changes at high speed when you hold either side of this button down.

❻ Band/Release Button

Press to change the frequency band in the following sequence:
FI (FM1) → FII (FM2) → FIII (FM3) → A (AM)
This button is also used to cancel the Best Stations Memory (BSM) operation.

❼ Fast Forward (+)/Rewind (−) Button

Press the (+) side for fast forward and the (−) to rewind the tape. Press this button twice to perform the music search operation, and a third time to return to normal playback.

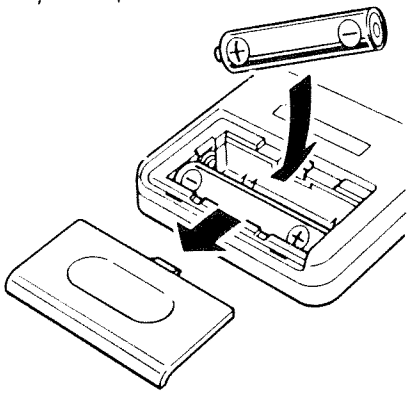
❽ Program/Release Button

Press to switch from Side A to Side B of a tape or from Side B to Side A, or to cancel the fast forward and rewind operations. This button also cancels the Music Repeat function (switched on using the music repeat button of the main unit), and the Music Search function.

Preparing to Use the Remote Controller Unit

Loading Batteries

1. Remove the battery compartment cover of the remote controller unit.
2. Load the two UM-4 batteries that come with the unit into the remote controller unit, ensuring that their polarity (+ / −) is correct (see Fig. 1).
3. Replace the battery compartment cover.

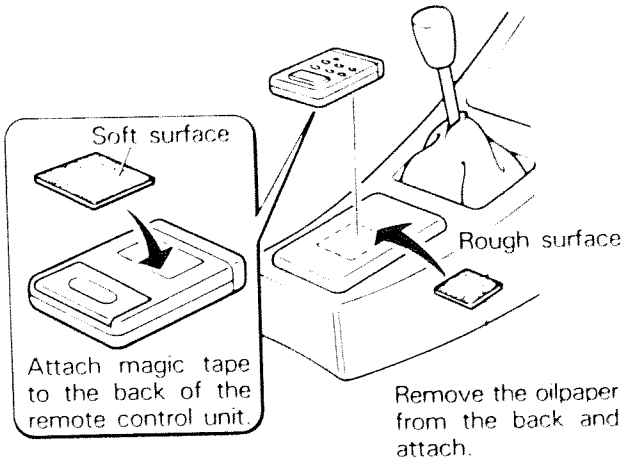


Precautions When Loading Batteries

Note the following precautions when loading batteries into the remote controller unit to avoid damage due to battery fluid leakage.

- Always check carefully that you are loading batteries with their ⊕ and ⊖ poles facing in the proper directions.
- Never mix old and new batteries. Always replace batteries with two new ones.
- Some batteries may appear to be identical but have different voltage ratings. Never mix battery types.
- Some batteries can be recharged and some cannot. Be sure to carefully read the label for the batteries you use.
- To avoid damage to the remote controller caused by battery leakage, remove the batteries from the remote controller if you do not plan to use it for more than one month. If you find that fluid has leaked, thoroughly wipe out the battery compartment cover and load a set of new batteries.

Installing the Remote Controller Unit


Soft surface
Rough surface
Attach magic tape to the back of the remote control unit.
Remove the oilpaper from the back and attach.

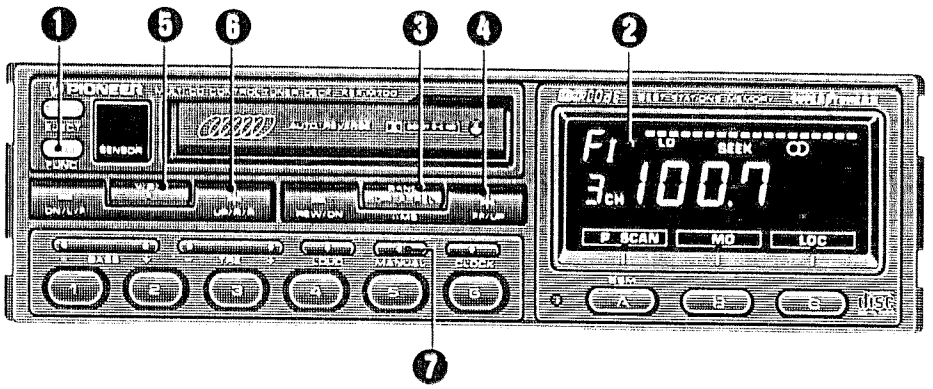
Affix a strip of Velcro tape to the back of the remote control unit. Remove the oil paper on the back and affix into place.

- Thoroughly wipe off the surface before affixing the Velcro tape.

Precautions

- Keep the remote controller unit in an area not exposed to long periods of direct sunlight.
- The remote controller unit may not operate properly if the transmitter of the remote controller unit is pointed towards the floor or the seat of the vehicle.
- Since the remote controller unit employs and infrared system, it may not operate properly while exposed to direct sunlight. In such a case, block the sunlight from the sensor and then perform the desired operation.
- If the remote controller fails to operate unless it is brought close to the unit, it may indicate that battery power is low. Replace the batteries in the remote controller as soon as possible.

Listening to AM/FM Broadcasts



1. Press the mode button ❶ to show the tuner display ❷.
2. Select a band (AM/FM) using the band/release button ❸.
3. Press the (+) side or (−) side of the tuning button ❹. Pressing the (+) side automatically tunes in the next higher receivable frequency, while the (−) side tunes in the next lower receivable frequency (Seek Tuning function).
4. Use the volume/balance/fader button ❺ and the volume/balance/fader control button ❻ to make each adjustment to the desired level.

- When the "**SEEK**" indicator is not shown on the display ❷, it means that the tuner is currently in the Manual Tuning mode. Switch to Seek Tuning by pressing the seek/manual button ❼ until the "**SEEK**" indicator is shown on the display.

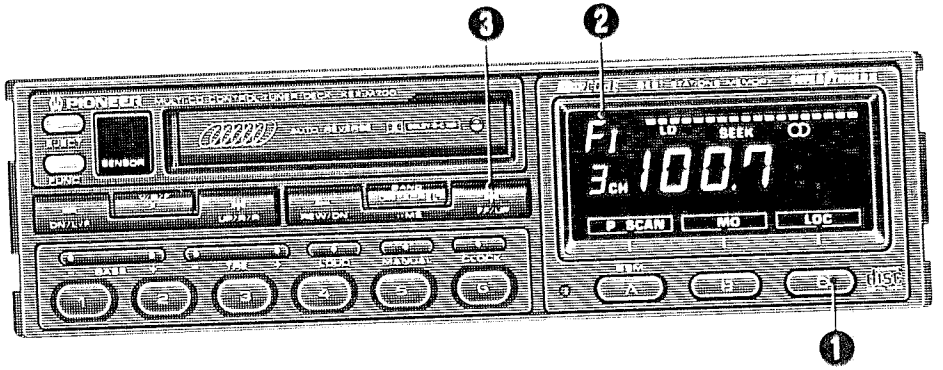
Using Manual Tuning

Manual tuning can be used to change FM frequencies in 0.2 MHz steps, and AM frequencies in 10 kHz steps.

1. Press the seek/manual button ❼, and the seek indicator will disappear from the display.
2. Press the (+) side of the tuning button to raise the frequency and the (−) side to lower the frequency. Holding down either side changes the frequency at high speed.

- Press the seek/manual button to return to manual tuning. At this time, the "**SEEK**" indicator will appear on the display.

Using Local Seek Tuning



The Local Seek Tuning function is used to automatically tune in broadcasts that are stronger than those tuned in by the Seek Tuning function. You can preset the sensitivity of the Local Seek Tuning function to one of four levels (L1—L4) for FM broadcasts, and two levels (L1 or L2) for AM broadcasts.

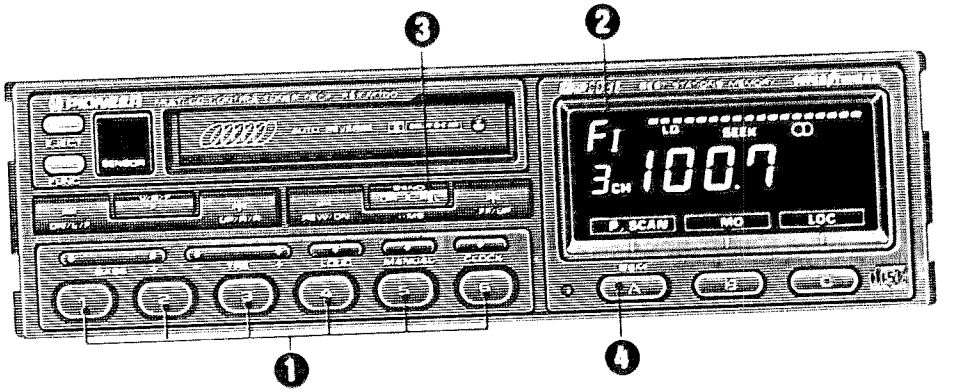
Changing the Local Seek Sensitivity Level

1. Hold down the local seek button ❶ for about two seconds to show the current sensitivity setting on the display ❷
2. While still holding down the local seek button ❶ press the (+) side of the tuning button ❸ to raise the sensitivity level, or the (−) side to lower the sensitivity level. A setting of L1 sets the sensitivity so that relatively weak broadcasts will be tuned in, while a higher level tunes in only stronger broadcasts.

Local Seek Tuning

3. Now the seek tuning operation will be performed in accordance with the local seek sensitivity level set in step 2 above.

Using the Frequency Memories



The following describes the two types of frequency memories that are available with this system.

Preset Memory

Frequencies can be preset to the preset buttons for one-touch tuning of favorite broadcasts.

1. Tune in the frequency to be preset.
2. Press a preset button (1—6) ❶ and hold it down for about two seconds. The number of the preset button pressed will flash on the display ❷ to indicate that the frequency is stored in memory.

- You can store up to 18 FM frequencies (6 each for FI, FII and FIII) and 6 AM frequencies in the Preset Button Memory.

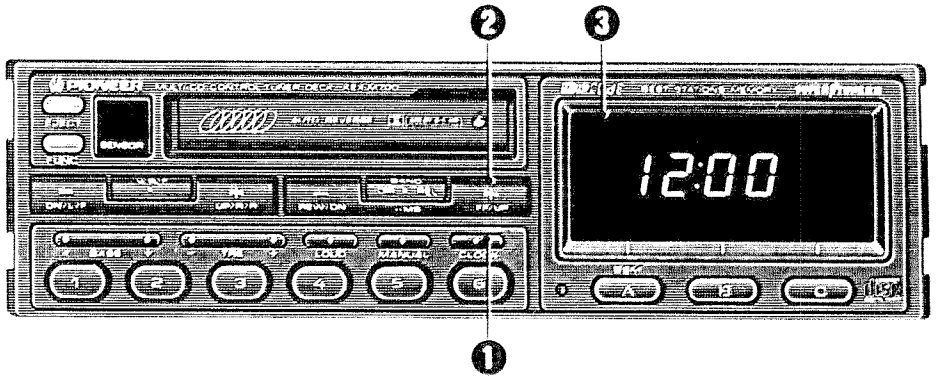
Adjusting the Time

Best Stations Memory (BSM)

This function automatically tunes in the strongest broadcasts and stores them to the preset buttons (1 6) and is convenient for finding the strongest station in the area you are driving in.

1. Use the band/release button ❸ to set the desired band (AM/FM).
2. Hold down the BSM button ❹ for about two seconds until you hear a peep sound. This sound and the bar above the BSM indicator on the display ❷ indicate that the BSM function is operating.
3. Once the BSM function is complete, the display changes from the BSM indicator to show the frequency preset for preset button ❶. The strongest frequencies found are stored in the Preset Button Memory, and can now be tuned in by pressing the preset buttons (1 – 6).

- When fewer than six strong frequencies are found, the remaining preset buttons retain the frequencies stored prior to the current BSM operation.
- In areas where there are fewer than six strong frequencies, it can take about 30 seconds to complete the BSM operation.
- To cancel the BSM operation while it is being performed, press the band/release button ❸.



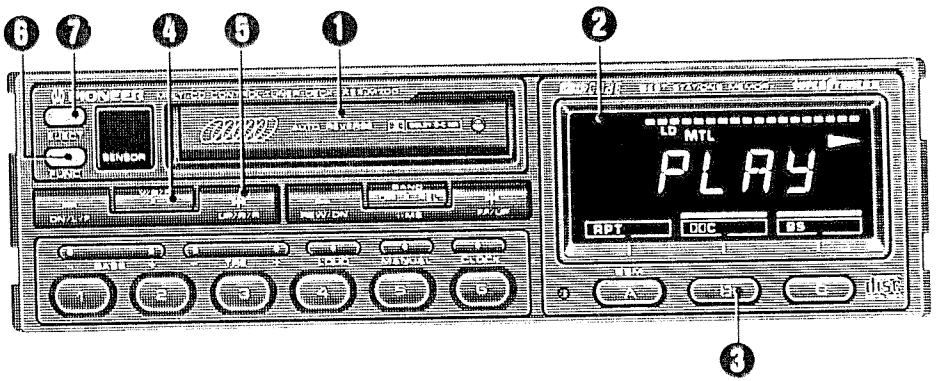
Adjusting the Hours

1. While holding down the clock button ❶, press the (–) side of the tuning button ❷.
2. Each time you press the (–) side of the tuning button, the hour setting on the display ❸ is incremented by one. Holding the (–) side of the tuning button down increments the hour setting at high speed.

Adjusting the Minutes

1. While holding down the clock button ❶, press the (+) side of the tuning button ❷.
2. Each time you press the (+) side of the tuning button, the minute setting on the display ❸ is incremented by one. Holding the (+) side of the tuning button down increments the minute setting at high speed.

Playing Back a Cassette Tape



- The cassette tape function of this unit is given priority over its other functions. This means that even if the tuner or the optionally available multi-play CD player is in operation, the system automatically switches to tape play when a cassette tape is loaded.

1. Insert a cassette tape into the tape slot ❶. Part way into the slot, the motor driven power loader will take over to load the tape and begin playback (the PLAY indicator will appear on the display ❷).
2. If the tape you are listening to was recorded using a Dolby B-type NR or C-type NR system, press the Dolby NR button ❸ to select the proper system.
3. Use the volume/balance/fader button ❹ and the volume/balance/fader control button ❺ to make each adjustment to the desired level.
4. To stop tape play at any time, press the mode button ❻. To resume tape play from the point at which it was stopped, press the mode button ❻ until the PLAY indicator appears on the display again.
5. Press the eject button ❼ to eject the cassette tape from the unit.

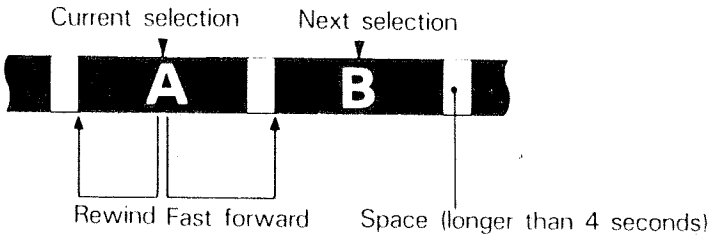
- The cassette tape will automatically eject if it cannot be set properly by the power loader. At this time, confirm that the tape is not damaged and try to load it again.
- A cassette label that is peeling off or badly warped can damage the eject mechanism or cause the cassette to become stuck in the unit. Always ensure that the label is pasted down flat before using a cassette tape.

Using Music Search and Music Repeat

Music Search

The Music Search function is used to repeat the current selection or to move to another point on the cassette tape quickly and easily.

1. To move to the beginning of the current selection, press the rewind button (−) twice (REW indicator flashes on the display).
2. To move to the beginning of the next selection, press the fast forward button (+) twice (FF indicator flashes on the display).



Music Repeat

The Music Repeat function is used to repeat a favorite selection as many times as you like.

1. Press the music repeat button to repeat the current selection (bar appears above "**RPT**" indicator on the display). The current selection will be repeated until the Music Repeat function is canceled.
2. You can cancel the Music Repeat function at any time by pressing the release button.

Important

The following conditions may cause improper operation of the Music Search and Music Repeat functions. Note that this is the fault of the tape and it does not mean that there is something wrong with the unit.

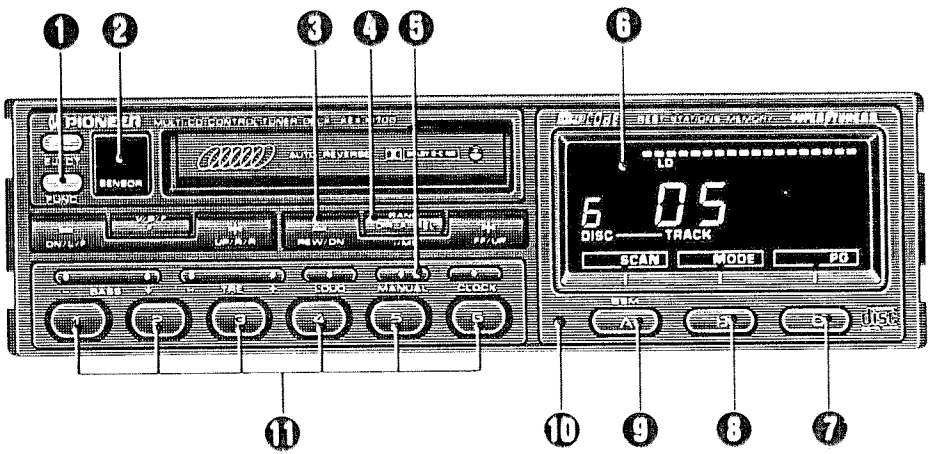
- Tapes recorded with less than four seconds between selections.
- Tapes which contain conversations with lapses longer than four seconds.
- Tapes in which the recording volume is very low for periods longer than four seconds.

Precautions When Using the Multi-Play CD Control

- The multi-play CD controls can be used when an optionally available multi-play CD player (CDX-M100) is included in the system.
- See pages 20 through 26 for details on operation procedures.
- The Owner's Manual for the multi play CD player does not contain an explanation of the CD controls for this unit. Read this Owner's Manual for details on proper operation and keep it handy for later reference.
- Immediately after the multi-play CD player is connected to the system, it may not operate properly (i.e. the system will not enter the multi-play CD player mode when you press the mode button). In this case, press the clear button of the main unit and the clear button of the multi-play CD player, and attempt operation again.
- When the tape player or tuner is in operation and you load a disk magazine in the multi-play CD player, the unit automatically switches to CD play. When the CD player is in operation and you load a cassette tape, the unit automatically switches to tape play.
- Even when the power of the unit is OFF CD play begins automatically when a disk magazine is loaded and the ignition switch of the vehicle is set to ACC or ON. Therefore, you should always check the unit after changing the magazine when the multi-play CD player is located in the trunk of the vehicle to avoid running down the vehicle's battery.
- An Err (error) indicator is shown on the display and operation of the system becomes impossible when there are no discs in the magazine or when the discs are loaded into the magazine with their labels facing upwards. Whenever this message appears, remove the disc magazine and check the discs.
- The indicator HHHH appears on the display and playback is automatically cut when the temperature around the multi-play CD player becomes too high. This protects the laser mechanism from serious damage. Listen to the radio or a tape until the temperature returns to normal.

ENGLISH

General Guide (Multi-Play CD Control)



❶ Mode Button (FUNC)

Press to switch the function of the unit as follows:
Multi-play CD player → Cassette deck → Tuner → Power off

- Immediately after the multi-play CD player is connected to the system, it may not operate properly (i.e. the system will not enter the multi-play CD player mode when you press the mode button). In this case, press the clear button and attempt operation again.

❷ Remote Control Sensor

❸ Track Number Search/Fast Forward, Reverse Button

Used to perform track number search, fast forward, and reverse.

Track Number Search

Press the (+) side of the button to increase the track number or the (−) side to decrease the track number. Holding down either side of the button will cause the track number to change at high speed. This button is also used to select track numbers for input of programs for program play and to change the steps during program play.

Fast Forward (+)/Reverse (−)

Pressing the (+) side advances the selection at high speed, while pressing the (−) side reverses the selection at high speed. Normal play resumes when this button is released. Holding down either side continues high speed operation even after the preceding or following selection is entered.

❹ Program Play/Release Button

This button is also used to cancel the program play, music repeat, random play and track scan functions.

❺ Track Number Search/Fast Forward, Reverse Select Button

Press to switch the contents of the display between the TRACK display (for track number search) and the elapsed play time (for fast forward/reverse).

❻ Display

❼ Program Button (C)

Press to program the playback sequence of the selections from a disc. Press once to show the programming display ("**DISC**−**TRACK**" and "**PG**" indicators flash), and then specify a selection using the disc number button and track number search button. Finally press the program button again. You can program a maximum of 32 steps by repeating this operation. The program button is also used to change or delete the program sequence.

❽ Music Repeat/Random Play Button

Press to switch the function of the unit in the following sequence:
Music repeat (RPT) → Random play (RAN) → Normal play
A bar appears above the "**MODE**" indicator when Music Repeat or Random Play is selected.

Reading the Display
(Multi-Play CD Control)

Music Repeat

Press until the RPT indicator appears on the display to repeat the current selection. Press the release button at any time to cancel the Music Repeat function. When this function is not being used, discs in the currently loaded magazine play repeatedly from beginning to end.

Random Play (RA.P)

Press twice until the RAP indicator appears on the display for random play of the selections on the current disc. The microprocessor built into the unit automatically selects the tracks on the current disc in a random order for playback. Press the release button at any time to cancel the Random Play function.

❾ Track Scan Button (A)

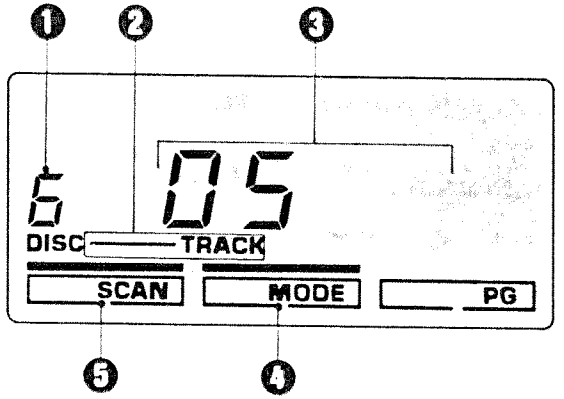
Press to sequentially play back the beginning (about 10 seconds) of each selection on the current disc (operation indicated by bar above **"SCAN"** on the display). Press the release button at any time to cancel the scan operation and play the current selection. Normal play will also resume after the Track Scan function has scanned all of the selections on the disc.

❿ Clear Button

⓫ Disc Number Buttons (1–6)

Press to specify the number of a disc loaded in the magazine for playback or programming.

- Pressing these buttons has no effect when the selected tray number does not contain a disc.



Multi-Play CD Control I

❶ Disc Number

Shows the number of the disc currently selected using the disc number buttons.

❷ Track Indicator

Shows the "–TRACK" indicator when the manual function button is in the Track Number position.

❸ Track Number/Elapsed Play Time/Music Repeat/Random Play Indicators

Track Number/Elapsed Play Time Displays

Each press of the manual function button switches between display of the track number and elapsed play time (minutes and seconds) for the current selection.

Music Repeat/Random Play Indicators

Each press of the music repeat/random play button switches the display in the following sequence:

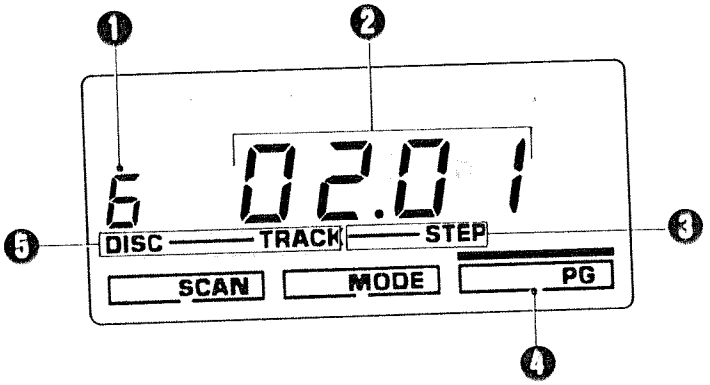
RPT indicator → RAP indicator → Normal playback indicator

❹ Mode Indicator

A bar appears above the "MODE" indicator when the RPT or RAP indicator is shown on the display after you press the music repeat/random play button.

❺ Track Scan Indicator

A bar appears above the "SCAN" indicator when you press the track scan button.



Multi-Play CD Control II (Program Memory)

❶ Disc Number

Shows the number of the disc currently selected using the disc number buttons.

❷ Track Number/Step Number/All Track/Program Play/Program Clear Indicators

Track Number Display

Shows the number of the track (above the "TRACK" indicator) selected using track number search/fast forward/reverse button.

Step Number Display

Shows the current step number (above the "STEP" indicator) during program play and when using the program memory.

All Track Indicator (AL)

This indicator appears above the "TRACK" indicator when all of the contents of a single disc are stored in memory at one time.

Program Play Indicator (PG.P)

Press the program play/release button and this indicator appears for about two seconds at the start of Program Play.

Program Clear Indicator (PG.C)

Press the program play/release button for approximately two seconds during disc play and this indicator appears for about two seconds to indicate that the program stored in memory has been cleared.

❸ Step Indicator

The indicator "—STEP" appears during program play and when the program memory is being used.

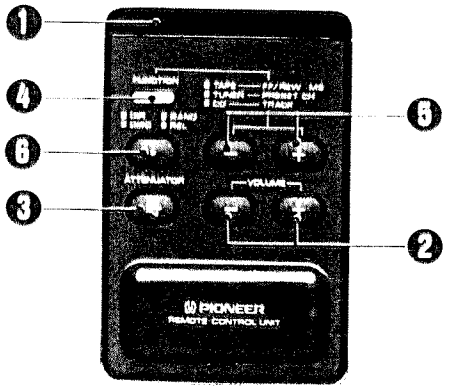
❹ Program Indicator

The indicator "PG" flashes and a bar appears above "PG" on the display when the program memory is being used.

❺ Disc/Track Indicator

The indicator "DISC—TRACK" appears during program play. This indicator flashes when the program memory is being used.

General Guide
(Remote Controller Unit)



❶ Transmitter

❷ Volume UP (+)/Down (−) Button

❸ Attenuator Button

❹ Mode Button

Press to switch the function of the unit as follows:

Multi-play CD player → Cassette deck → Tuner → Power off

❺ Track Number Search Button

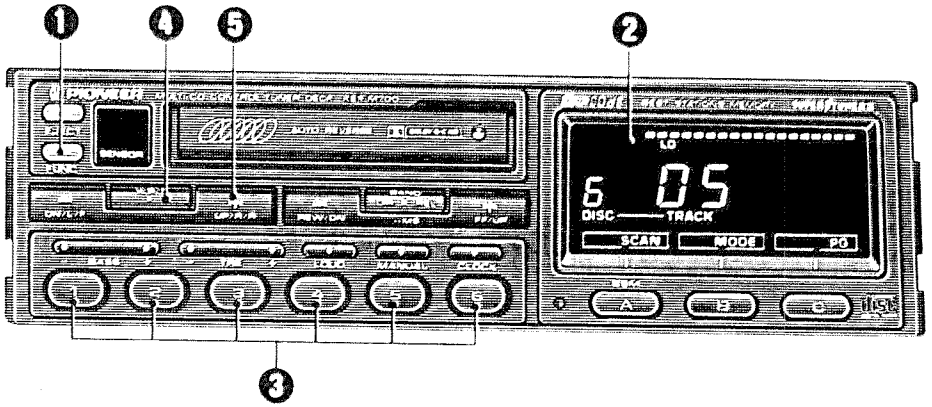
Press to search for a selection (track number) on the current disc. Press the (+) side to increase the track number on the display, and the (−) side to reduce the track number. Holding down either side of this button changes the track number at high speed.

❻ Disc Number/Release Button

Used to specify the number a disc loaded in the magazine. Each press of this button sequentially advances the number. This button is also used to cancel the Program Play, Music Repeat, and Track Scan functions.

- Note that the disc number is advanced when this button is used to cancel a function.

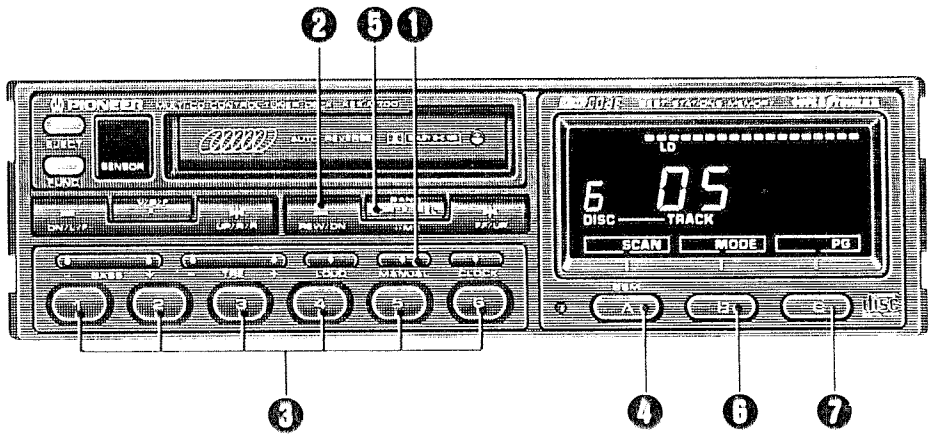
Playing a Disc



1. Press the mode button ❶ until the multi-play CD control display ❷ appears. At this time, disc play begins automatically.
2. When the end of the disc is reached, play automatically continues from the first selection of the next disc. Press a disc number button ❸ to change to another disc.
- The current disc continues to play if the tray for the disc number button you press does not contain a disc.
3. Use the volume/balance/fader button ❹ and the volume/balance/fader control button ❺ to make each adjustment to the desired level.
4. To stop disc play at any time, press the mode button ❶. To resume disc play from the beginning of the selection at which it was stopped, press the mode button ❶ until the multi-play CD control display appears again.
- Some time is required for the multi-play CD player to change discs after a disc number button is pressed until the disc begins actual play.
- The display counts down the amount of time between selections on the disc.

ENGLISH

Convenient Disc Operation



Track Number Search

The Track Number Search function is used to specify a track number for playback from the disc.

Example: Specifying Track 7

1. Press the track number search/fast forward, reverse select button ❶ until the "—**TRACK**" indicator appears on the display.
2. Press the (+) side and (−) side of the track number search/fast forward, reverse button ❷ to change the track number on the display to 07 .
3. Disc play begins automatically from selection seven.

- The track number search operation can also be performed using the remote controller unit.

Disc Number Search

The Disc Number Search operation is used to specify play from the first selection of a specific disc.

Example: Specifying disc 5

1. Press button 5 of the disc number buttons ❸.
2. Play automatically begins from the first selection of the disc number 5.

- Pressing a disc number button has no effect when the selected tray number does not contain a disc.

Track Scan

The Track Scan function sequentially plays back the beginning (about 10 seconds) of each selection on the current disc.

1. Press the track scan button ❹ until "**SCAN**" is shown on the display.
2. Press the program play/release button ❺ or track scan button ❹ at any time to cancel the scan operation and play the current selection.

- Normal play will also resume after the Track Scan function has scanned all of the selections on the disc.

Music Repeat

The Music Repeat function is used to repeat a selection as many times as desired.

1. Press the music repeat/random play button ❻ while the desired selection is being played. The RPT indicator will appear on the display, and the current selection will continue to be repeated until the Music Repeat function is canceled.
2. You can cancel the music repeat function at any time by pressing the program play/release button ❺.

- When the Music Repeat function is not being used, the current discs in the magazine play repeatedly from beginning to end.

Random Play

The Random Play function uses the microprocessor built into the unit to automatically select the tracks on the current disc in a random order for playback.

1. Press the music repeat/random play button ❻ twice until the RAP indicator appears on the display. The selection following the current selection will be randomly selected.
2. You can cancel the Random Play function at any time by pressing the program play/release button ❺.

- Since the order of the selections is random, it is possible that the same selection will be played twice in succession.

Using Programmed Play

With the programmed play function, you can play back the selections contained on all of the discs loaded in the Multi-play CD player in any sequence desired.

- The program memory for a single magazine can store up to 32 selections. Program selection is controlled by an Automatic Magazine Program Selection (AMPS) system.
- The program memory can store the data for up to 16 different magazines. This means that if you remove a magazine after using programmed play, the CD player still remembers the sequence, when you load the magazine again, it is programmed for the same sequence.
- Note that the programmed sequence for a magazine is based on DISC 1. If you remove DISC 1 from the magazine, the programmed data will not operate properly.
- If you program more than 16 magazines, old programs are automatically deleted from the oldest first.

Program Memory and Disc Play

1. Press the program button ❼ while a disc is playing.
2. Press any of the disc number buttons ❸.
3. Choose a selection by pressing the track number search button ❷.
4. Press the program button ❼. This completes the programming of one step, so 01 appears on the display.
5. Repeat steps 2, 3 and 4 to program other steps (up to 32 maximum).

- Pressing the program button ❼ after disc number selection is step 2 programs all of the selections contained on the disc to memory. (AL appears on the display.)

6. Finally pressing the program play button ❺ stores the program in memory. PGP appears on the display, and programmed play begins.

- Be sure to perform the procedures in steps 1, 2, 3, and 4 while "DISC—TRACK" and "PG" are flashing on the display (for about 10 seconds). If you fail to do so, storage to memory becomes impossible and you must start again from step 1.
- During programmed play, the track number search button ❷ can be used to search for a specific step number from among the programmed selections.
- Programmed play plays back the selections in their programmed sequence. After the final selection in the sequence plays, playback returns to the first selection.

Canceling Programmed Play

Press the release button ❺ to cancel programmed play and return to normal play. To return to programmed play, press the program button ❼ and then press the program play button ❺ within 10 seconds.

Changing Programs

Use the following procedure to change a program already stored in memory.

1. Press the program button ❼ during disc play to display the step number of the currently stored program.
2. Press the program button ❼ until the number of the step to be changed appears.
3. After selecting the step number, use the disc number button ❸ and track number search button ❷ to choose a selection.
4. Press the program button ❼ to store the new selection under the selected step number. This also displays the next step.
5. Repeat 2, 3 and 4 to change additional program steps if desired.
6. Finally, pressing the program play button ❺ stores the changed program in memory. PGP appears on the display and programmed play begins.

Using a Program From a Home Stereo Remote Controller

- Be sure to perform steps 1, 2, 3, and 4 while "**DISC—TRACK**" and "**PG**" are flashing on the display (for about 10 seconds). If you fail to do so, storage to memory becomes impossible and you must start again from step 1.

Clearing Programs From Memory

Use the following procedure to clear programs from memory for the current magazine.

1. Hold the program button ❼ down for longer than 2 seconds. PGC appears on the display and the currently stored program is cleared from memory.
2. Once the program is cleared, "**DISC—TRACK**" and "**PG**" flash on the display for about 10 seconds. You can input a new program during this time. After 10 seconds, the display returns to normal.

- If a program is deleted while a selection is playing, that selection continues to play, and following selections play in normal sequence.

- When this unit is used in combination with a multi-play CD player, programs for the remote controller units for the Pioneer home CD player (i.e. PD-M70) can be transferred to the car disc player, if the home unit remote controller is equipped with a transfer function.

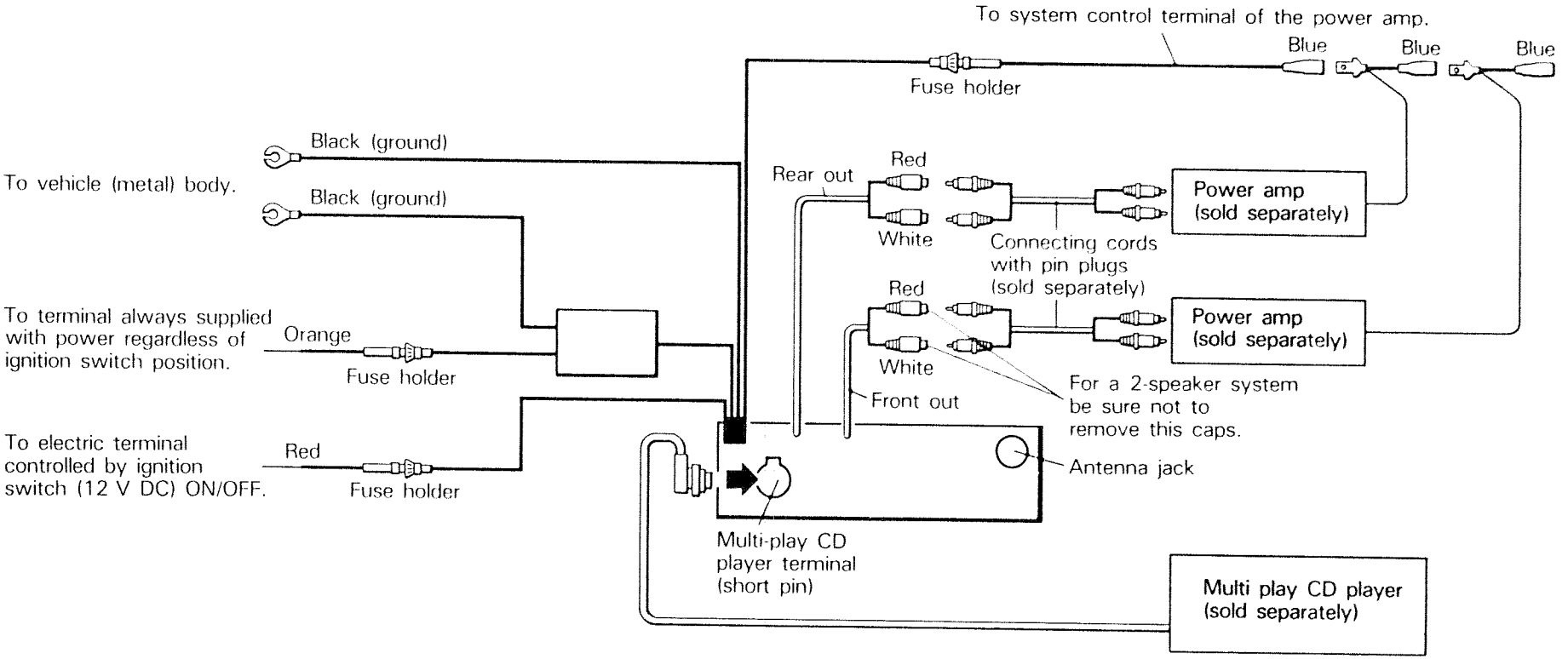
1. Press the mode button (FUNC) of the car unit and select any mode.
2. Press preprogrammed buttons A through H of the remote controller unit.
3. Point the remote controller unit at the remote control sensor of the car unit, press the TRANS button, and hold the remove controller steady.

- You will hear a "peep" sound each time a step is transferred to the car unit. You will hear a "peep" sound of a different tone when the transfer operation is complete.
- The transfer operation can be performed at any time the car stereo is in operation.
- Do not operate the remote controller unit equipped with the car stereo during the transfer operation. Doing so can result in erroneous data being transferred.

4. When the car unit is in the multi-play CD player mode, completion of the program transfer causes play of the current selection to be interrupted and programmed play to begin. The PGP indicator appears on the display for about two seconds to indicate program play. When the car unit is in any other mode, program play begins when you press the mode button (FUNC) to select the multi-play CD player mode.

Connecting the Units

- Before making final connections, make temporary connections then operate the unit to check for any connecting cord problems.
- Refer to the owner's manual for details on connecting the various cords of the power amp and other units then make connections correctly.
- Be sure to connect the memory power supply lead (orange) to a terminal that is always supplied with power regardless of the vehicle's ignition switch position. If this connection is made incorrectly or is forgotten, the unit will not work at all.
- Don't pass that orange lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Always leave short pin in place when Multi-play CD player terminal is not used.
- For 2-speaker systems, wire the rear output cord to the power amp.



Installation

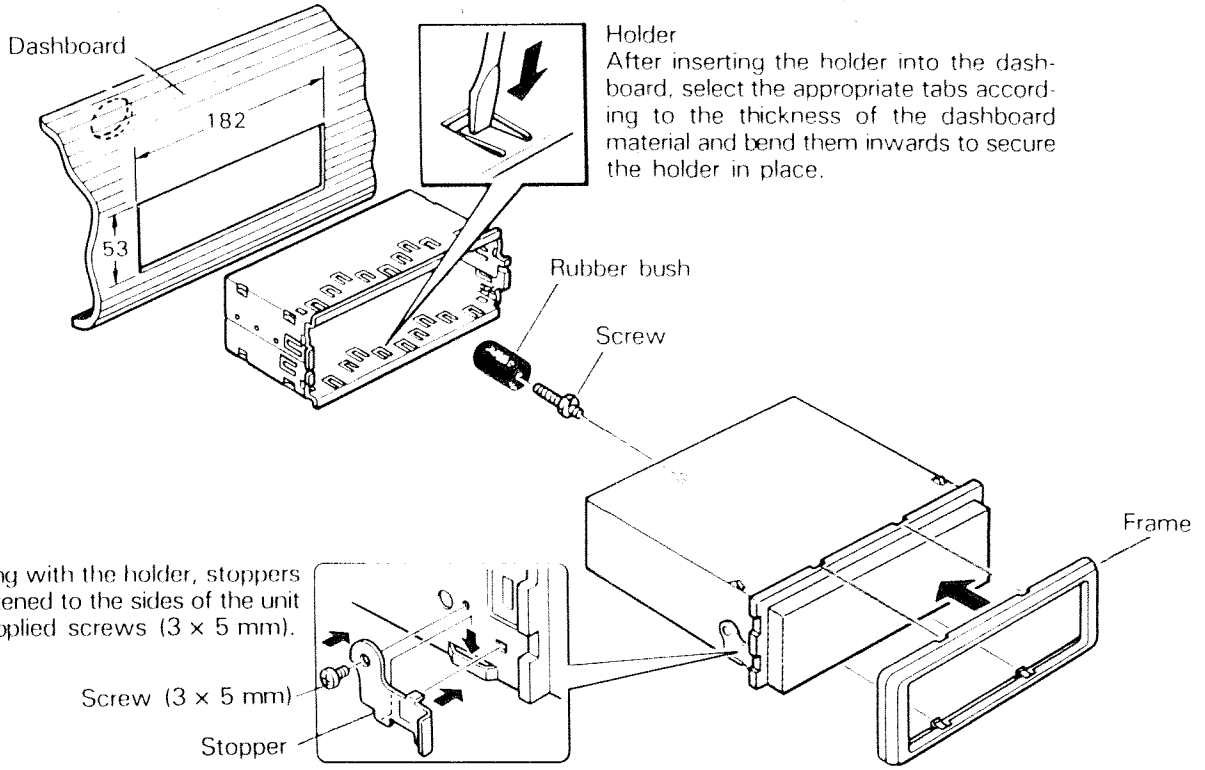
DIN Front/Rear-mount:

This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

Note:

- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 1)

Installation with the rubber bush (DIN Front-mount)


Dashboard
182
53
Holder
After inserting the holder into the dashboard, select the appropriate tabs according to the thickness of the dashboard material and bend them inwards to secure the holder in place.
Rubber bush
Screw
Frame
When installing with the holder, stoppers should be fastened to the sides of the unit using the supplied screws (3 x 5 mm).
Screw (3 x 5 mm)
Stopper

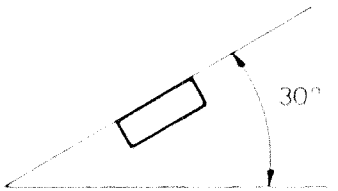
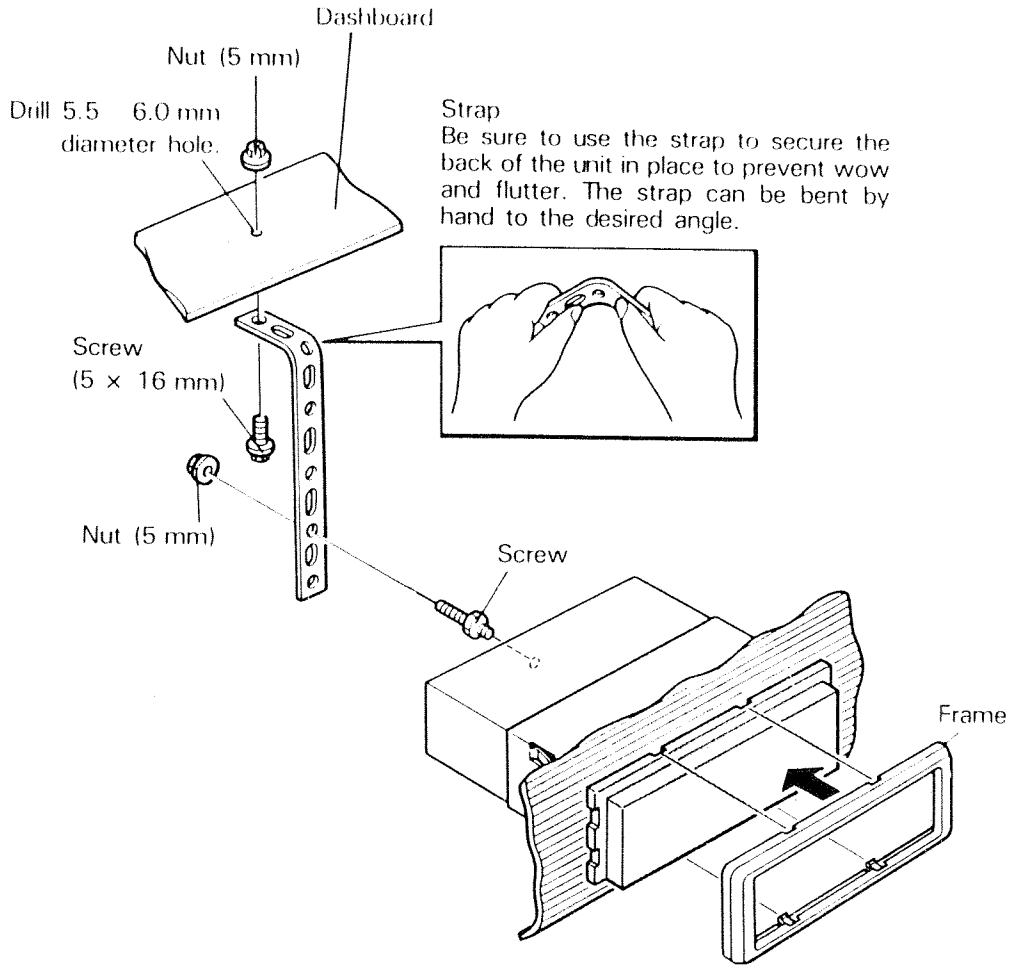


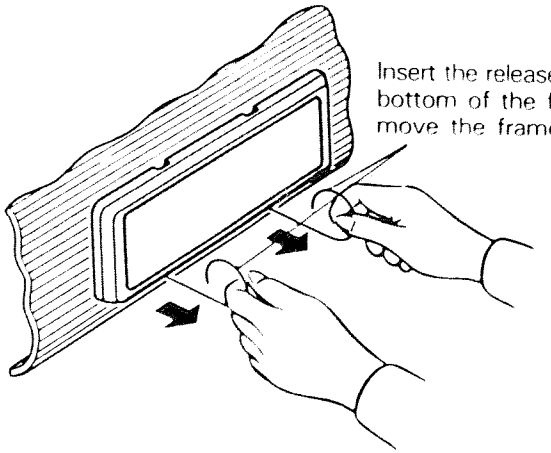
Fig. 1

Installation without the rubber bush (DIN Front-mount)



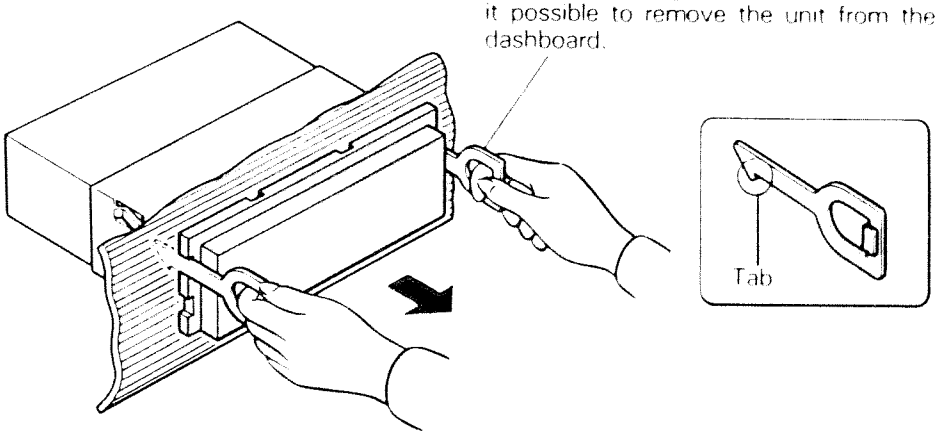
Strap
Be sure to use the strap to secure the back of the unit in place to prevent wow and flutter. The strap can be bent by hand to the desired angle.

Removing the unit (DIN Front-mount)



Insert the release pins into the holes in the bottom of the frame and pull out to remove the frame.

Lever
Position the accessory levers with the tabs lower. Insert the levers into the slots on both sides of the unit until they lock into place. Pulling off the levers makes it possible to remove the unit from the dashboard.



Installation using the screw holes on the sides of the unit (DIN Rear-mount)

1. **Installing the spacer onto the unit**
   1. Snap off the L (left) and R (right) from the spacer.
   2. Align the holes indicated by arrows in Fig. 2 with the raised portions of the spacer to install the spacer in place.
2. **Fastening the unit to the factory radio mounting bracket**
   For the screw holes marked (A) in Fig. 3, use 4 × 8 mm screws. For the screw holes marked (B), use 5 × 8 mm screws. (Fig. 4)

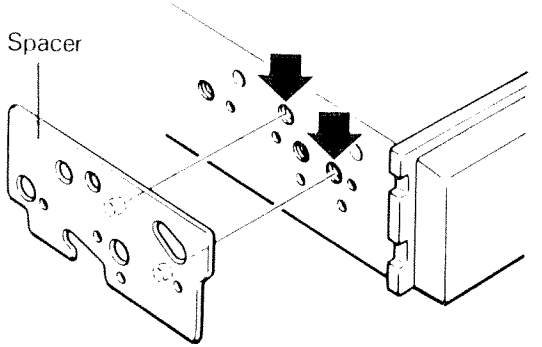


Fig. 2

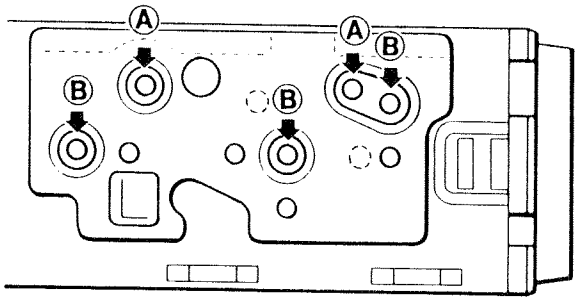


Fig. 3

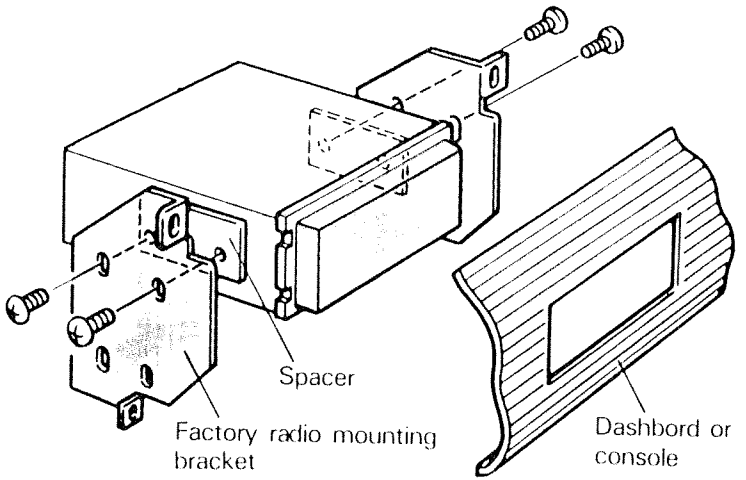


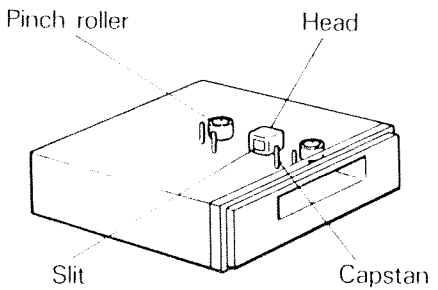
Fig. 4

Head Cleaning

The playback head performs an important role in the reproduction of recordings. If the head should become dirty, tone quality suffers and skipping will occur. Therefore, the head should be cleaned periodically (once or twice a month).
If a cotton swab is used, dip the swab into absolute alcohol or head cleaning fluid and use it to scrub the slit in the tape head.

Head Position

The head is located on the right side of the tape slot, approximately halfway between the front of the unit and the back.



Note:

- Don't use metal or a magnet on the head. Never use tweezers or pliers wrapped with cotton or gauze. This can scratch the head.
- When using a cleaning tape, play it once on one side for normal cleaning. Too much use of the cleaning tape will increase head wear. Be sure to read the cleaning tape instructions before use.

Precautions

- To assure proper operation of the unit, keep the vehicle interior temperature within a normal range using the vehicle's air conditioner or heater.
- When replacing fuses, be sure to use only fuses of the capacity prescribed on the fuse holder.
- If the tape has been unevenly wound, the force required for tape transport is too high which will cause play to switch automatically to the other side of the tape (the unit senses that the tape has reached the end). When this happens, use fast forward to rewind the tape uniformly before attempting playback.
- Don't use tapes that are longer than C-90 (90 minutes). C-120 (120 minutes) tape is very thin and can stretch and cause poor operation.
- Don't leave tapes in direct sunlight because they can get too hot and deform.
- Don't put tapes near magnets. Magnets can erase parts of tapes.
- Be sure to store tapes properly when not in use. Rewind them evenly and put them into a cassette case.
- Do not add any oil to the rotating parts nor disassemble the set if it does not perform satisfactorily.
- Frequencies and times stored in memory can be lost when the vehicle's battery is replaced. If this should occur, reprogram the preset memory.
- When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from outside.

In case of trouble
When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

ENGLISH

Specifications

General

Power source . . . . . 14.4 V DC (10.8 – 15.6 V allowable)
Grounding system . . . . . Negative type
Dimensions (chassis) . . . . . 178 (W) × 50 (H) × 155 (D) mm
[7 (W) × 2 (H) × 6-1/8 (D) in.]
(nose) . . . . . 170 (W) × 46 (H) × 7 (D) mm
[6-3/4 (W) × 1-3/4 (H) × 1/4 (D) in.]
Weight . . . . . 1.4 kg (3.1 lbs.)
Tone controls (bass) . . . . . ± 10 dB (100 Hz)
(treble) . . . . . ± 10 dB (10 kHz)
Loudness contour . . . . . + 10 dB (100 Hz), + 7 dB (10 kHz)
(volume: – 30 dB)
Preout output level . . . . . 500 mV
Output impedance . . . . . 1 kΩ

Tape player

Tape . . . . . Compact cassette tape (C-30 – C-90)
Tape speed . . . . . 4.8 cm/sec. (1-7/8 ips.)
Fast forward/rewind time . . . . . Approx. 100 sec. for C-60
Wow & flutter . . . . . 0.09% (WRMS)
Frequency response . . . . . Metal: 30 – 20,000 Hz (± 3 dB)
Normal: 30 – 17,000 Hz (± 3 dB)
Stereo separation . . . . . 45 dB
Signal-to-noise ratio . . . Dolby C-type NR IN: 70 dB (IHF-A network)
Dolby B-type NR IN: 63 dB (IHF-A network)
Dolby NR OUT: 55 dB (IHF-A network)

FM tuner

Frequency range
(0.2 MHz channel step) . . . . . 87.9 – 107.9 MHz
(50 KHz channel step) . . . . . 87.5 – 108 MHz
Usable sensitivity . . . . . 12 dBf (1.1 μV/75 Ω, mono)
50 dB quieting sensitivity . . . . . 17 dBf (1.9 μV/75 Ω, mono)
Signal-to-noise ratio . . . . . 70 dB (IHF-A network)
Distortion . . . . . 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response . . . . . 50 – 15,000 Hz (± 3 dB)
Stereo separation . . . . . 40 dB (at 65 dBf, 1 kHz)
Selectivity . . . . . 70 dB (2ACA) (± 400 kHz)

AM tuner

Frequency range
(10 kHz channel step) . . . . . 530 – 1,620 kHz
(9 kHz channel step) . . . . . 531 – 1,602 kHz
Usable sensitivity . . . . . 18 μV (25 dB) (S/N: 20 dB)
Selectivity (10 kHz channel step) . . . . . 50 dB (± 10 kHz)
(9 kHz channel step) . . . . . 50 dB (± 9 kHz)

These specifications were determined and are presented in accordance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.

Note:

Specifications and the design are subject to possible modification without notice due to improvements.

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